

United States Patent and Trademark Office  
- Sales Receipt -

08/31/2005 SSURLES 00000001 190610 10064727

01 FC:1252 450.00 DA

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re Application of:**

Robert Freedman )  
Serial No.: 10/064,727 )  
Filed: August 8, 2002 )  
Title: Combining NMR, Density and High )  
Frequency Dielectric Logging )  
Measurements for Improved )  
Formation Evaluation )

Attorney Docket No.: 20.2760  
Group Art Unit: 2859  
Examiner: T. Fetzner

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax. No. 571-273-1630 on the below indicated date.

*Kerry Morris*  
Kerry Morris

*8/30/05*  
Date

**Response and Amendment**

Assistant Commissioner for Patents  
Washington, D. C. 20231

Dear Ma'am:

In response to the Office Action dated March 3, 2005, please enter the following response and amendment.

**Introductory Remarks**

Claims 5, 10, 16, 20-24 and 29 are objected to for lack of antecedent basis. These claims have been amended to correct the defect or cancelled. Claims 1-5, 8, 10-12 and 30 are rejected under 35 USC 102(b) as being anticipated by Lew. Claims 6, 7, 31 and 32 are rejected under 35 USC 103(a) as being unpatentable over Lew. Claims 28 and 29 are rejected under 35 USC 103(a) as being unpatentable over Schoen. Applicant acknowledge the

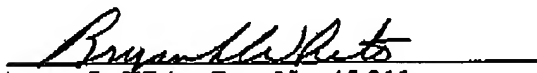
With respect to claim 30, the Office Action cites a section of Lew mentioning 'bulk density' at col. 2:28-39. However, this section only discusses the short-comings of previous approaches to determine cut-ratios. Specifically, this section states that a small change in oil density results in a large error. However, this section nowhere suggests that a combination of NMR measurements with bulk density measurement is desirable or useful. Further, there is nothing in the remainder of the Lew patent that explicitly or implicitly discloses such a combination. Instead, as described above, Lew relates exclusively to the use of NMR measurements alone. (See Abstract) There is simply no discussion in Lew of making or using measurements other than that obtained with an NMR acquisition.

#### CONCLUSION

The Applicants believe this paper is fully responsive to each and every ground of rejection and objection cited by the Examiner, and respectfully request that the application proceed to grant.

Please charge any applicable fees, or apply any excess, to deposit account number 19-0610.

Respectfully submitted,

  
Bryan L. White, Reg. No. 45,211

August 30, 2005  
Date

Schlumberger Technology Corporation  
Office of Patent Counsel  
200 Gillingham Lane, MD 200-9  
Sugar Land, TX 77478  
Telephone: 281-285-6493  
Facsimile: 281-285-4232